PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC32600A	FOR FURTHER ACTIO	N s	See Form PCT/IPEA/416			
International application No. PCT/IB2006/000876	International filing date (day/m 06.03.2006	nonth/year)	Priority date (day/month/year) 17.03.2005			
International Patent Classification (IPC) or national classification and IPC INV. C07D405/06						
Applicant PFIZER, INC.						
This report is the international pre Authority under Article 35 and train			International Preliminary Examining			
2. This REPORT consists of a total of	of 6 sheets, including this cov	ver sheet.	·			
3. This report is also accompanied b	y ANNEXES, comprising:		,			
a. sent to the applicant and to	o the International Bureau) a	total of sheets, as	follows:			
and/or sheets containi	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in Item 4 of Box No. I and the Supplemental Box.					
sequence listing and/or tab		nic form only, as in	of electronic carrier(s)) , containing a dicated in the Supplemental Box etions).			
4. This report contains indications re	lating to the following items:	· · · · · · · · · · · · · · · · · · ·				
☐ Box No. I Basis of the rep	ort					
☐ Box No. II Priority			·			
🖾 Box No. III Non-establishm	ent of opinion with regard to r	novelty, inventive st	ep and industrial applicability			
☐ Box No. IV Lack of unity of	invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
☐ Box No. VI Certain docume	nts cited		•			
Box No. VII Certain defects	in the international application	n				
	☑ Box No. VIII Certain observations on the international application					
Date of submission of the demand		of completion of this	report			
06.06.2006		02.2007				
Name and mailing address of the internation	al Autho	orized officer	_ax Pata_			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d		deren, Jeroen				
Fax: +49 89 2399 - 4465		phone No. +49 89 239	99-			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

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	Bo	x No. I Basis of the repor	
1.	Wit	h regard to the language, th	is report is based on
	\boxtimes	the international application	in the language in which it was filed
		of a translation furnished fo international search (und publication of the international search)	onal application into, which is the language rethe purposes of: der Rules 12.3(a) and 23.1(b)) ational application (under Rule 12.4(a)) examination (under Rules 55.2(a) and/or 55.3(a))
2.	hav	ve been furnished to the rece	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this report):
	Des	scription, Pages	
	1-45	5	as originally filed
	Clai	ims, Numbers	
	1-15	5	as originally filed
	Drav	wings, Sheets	
	1-4		as originally filed
		a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing
3.		The amendments have result the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specified any table(s) related to seconds. □	ecify):
l .	□ had Sup	This report has been establinot been made, since they haplemental Box (Rule 70.2(c)) the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specific any table(s) related to se	ecify):
	*	If item 4 applies, so	me or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

		x No. III Non-establishment of opinion with regard to novelty, inventive step and industrial plicability			
١.	The	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:			
		the entire international application,			
		claims Nos. 11-14			
	bec	pecause:			
		the said international application, or the said claims Nos. 11-14 (with respect to industrial application) relate to the following subject matter which does not require an international preliminary examination (specify):			
		see separate sheet			
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify).			
		no international search report has been established for the said claims Nos.			
		a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:			
		I furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.			
		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.			
		pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 <i>ter</i> .1(a) or (b) and 13 <i>ter</i> .2.			
		a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.			
		the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.			
		See separate sheet for further details			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1,2,4,5,7-15

No:

Claims

3,6

Inventive step (IS)

Yes: Claims

1,2,4,5,7-15

No:

Claims

3,6

Industrial applicability (IA)

Yes: Claims

1-10,15

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2006/000876

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 11-14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: WO 90/05133 A (PFIZER LIMITED; PFIZER INC) 17 May 1990 (1990-05-17)

D2: WO 03/030898 A (MERCK & CO., INC; KIM, RONALD, M; CHANG, JIANG;

CHAPMAN, KEVIN, T; MIL) 17 April 2003 (2003-04-17)

Document D1 discloses in examples 1-13 and 23 compounds which are novelty destroying for claim 6 of the present application. Examples 14-21 show examples which are novelty destroying for claim 3. Claims 3 and 6 are therefore not novel with respect to Article 33(2) PCT and can therefore also not be considered inventive according to Article 33(3) PCT.

Document D2 discloses piperidine comprising compounds for use in the treatment of HIV. This disclosure is considered to represent the closest prior art. The difference of the compounds of document D2 is enormous. The problem to be solved by the applicant was to provide alternative compounds for the treatment of HIV. Starting from document D2, a skilled person would not come to the solution of the present application as he would have to change the compounds of D2 completely. He would not have an incentive in the prior art to do so. It is therefore considered that the subject-matter of the present application, in as far it comprises novel subject-matter (claims 1,2,4,5,7-15), is inventive with respect to Article 33(3) PCT.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2006/000876

Re Item VIII

Certain observations on the international application

In the present set of claims, definitions for e.g. alkyl are given in the description which are not common to a person skilled in the art. Alkyl can mean a cyclic structure for example. This renders the scope of the entire application unclear for a person skilled in the art.

Claim 2 refers to an embodiment wherein a radical R3 is mentioned. There is however no definition given for said R3. This renders the scope of claim 2 unclear.